

## **EPOXY CURING AGENT EMULSIFICATION FOR TTR APPLICATION**

### **Abstract of the Disclosure**

An aqueous coating formulation which forms a thermal transfer layer of a thermal transfer ribbon. This formulation comprises an aqueous emulsion of a thermoplastic resin and/or wax coemulsified with an epoxy curing agent. This emulsion can be combined with an aqueous dispersion of an epoxy resin. These coating formulations provide thermal transfer layers with reactive components that increase in molecular weight when heated during transfer to provide images with high scratch and smear resistance without organic solvents. The reactive components are maintained in separate phases within the same thermal transfer layer or separate thermal transfer layers until exposed to a thermal print head.